

Amendments to the claims

Please amend the claims as follows:

1. (currently amended) A multimeter with non-contact temperature measurement capability, comprising:

a multimeter contained in a housing and having outputs relating to measured electrical parameters;

an output display contained in the housing, for displaying results to a user;

a non-contact optically-based temperature sensing device comprising an infrared sensor built in to the housing, having an output related to sensed temperature of a surface, and without the capability of adjusting for emissivity of the surface being sensed, the temperature sensing device defining a sense axis that is adjustable relative to the housing, and further comprising a lens, proximate the infrared sensor and mounted in a mount that is coupled to and projects outwardly from the housing, for focusing entering radiation and protecting the infrared sensor, wherein the mount is movable by the user relative to the housing, to allow the user to aim the sense axis; and

circuitry contained in the housing for processing both the multimeter outputs and the temperature sensing device output, in which the circuitry determines the sensed temperature based on the output of the temperature sensing device using a fixed emissivity value, the circuitry transmitting the processed output to the output display.

- 2-7. (canceled)

8. (currently amended) The multimeter with non-contact temperature measurement capability of claim 1 in which the mount is rotatably coupled to the housing.

9. (original) The multimeter with non-contact temperature measurement capability of claim 1 further comprising an optical aiming device coupled to the housing, to assist the user in aiming the temperature sensing device at an object whose temperature is to be measured.

10. (previously amended) The multimeter with non-contact temperature measurement capability of claim 9 in which the optical aiming device comprises a laser that is adjustable relative to the housing.

11. (currently amended) The multimeter with non-contact temperature measurement capability of claim 10 in which the optical aiming device is mounted in athe mount that is coupled to and projects outwardly from the housing, and is coupled to and movable by the user relative to the housing, to allow the user to aim the optical aiming device.

12. (currently amended) The multimeter with non-contact temperature measurement capability of claim 11 in which the ~~optical aiming device~~ mount is rotatably coupled to the housing.

13. (original) The multimeter with non-contact temperature measurement capability of claim 9 in which the optical aiming device comprises a diode laser device.

14. (original) The multimeter with non-contact temperature measurement capability of claim 1 further comprising a switch for switching at least some of the circuitry between the multimeter outputs and the temperature sensing device output.

15. (original) The multimeter with non-contact temperature measurement capability of claim 1 further comprising a user-operable electrical device for selectively routing the temperature sensing device output to the circuitry.

16. (original) The multimeter with non-contact temperature measurement capability of claim 1 further comprising a user-operable electrical device for selectively holding the sensed temperature.

17. (canceled)

18. (previously amended) The multimeter with non-contact temperature measurement capability of claim 1 in which the fixed emissivity value is about 0.95.

19. (currently amended) A digital multimeter with non-contact temperature measurement capability, comprising:

a digital multimeter contained in a housing and having outputs relating to measured electrical parameters;

a digital output display contained in the housing, for displaying results to a user;

a non-contact infrared temperature sensing device contained within the housing, having an output related to sensed temperature of a surface, and without the capability of adjusting for emissivity of the surface being sensed, the temperature sensing device defining a sense axis that is adjustable relative to the housing and further comprising at least a lens that is mounted in a mount that projects outwardly from the housing, and is coupled to and movable by the user relative to the housing, to allow the user to aim the temperature sensing device sense axis; and

circuitry contained in the housing for processing both the multimeter outputs and the temperature sensing device output, in which the circuitry determines the sensed temperature based on the output of the temperature sensing device using a fixed emissivity value, the circuitry transmitting the processed output to the output display.

20-21. (canceled)

22. (currently amended) The multimeter with non-contact temperature measurement capability of claim ~~1921~~ in which the mount is rotatably coupled to the housing.

23. (original) The multimeter with non-contact temperature measurement capability of claim 19 further comprising an optical aiming device coupled to the housing, to assist the user in aiming the temperature sensing device at an object whose temperature is to be measured.

24. (previously amended) The multimeter with non-contact temperature measurement capability of claim 23 in which the optical aiming device comprises a laser that is adjustable relative to the housing.

25. (currently amended) The multimeter with non-contact temperature measurement capability of claim 24 in which the optical aiming device is mounted in ~~at~~the mount that is coupled to and projects outwardly from the housing, and is coupled to and movable relative to the housing, to allow the user to aim the optical aiming device.

26. (currently amended) The multimeter with non-contact temperature measurement capability of claim 25 in which the ~~optical aiming device~~ mount is rotatably coupled to the housing.

27. (canceled)

28. (currently amended) The multimeter with non-contact temperature measurement capability of claim ~~1927~~ in which the fixed emissivity value is about 0.95.